

Project Information

100

GEPS Risk Management

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Project Information | Project Details | LD Rates | Schedule/Delay | Finance | EHS | Noise | Help

Project Name: Insert Data Here	Country: Insert Data Here
ID#: Insert Data Here	State/Province: Insert Data Here
Buyer: Insert Data Here	Country IZ: Insert Data Here
Intended Cycle: Insert Data Here	GE Site Scope: Insert Data Here
LD Type: Insert Data Here	GE Equipment Scope: Insert Data Here
Bid Price of GE's Scope (000's): Insert Data Here	Project Viability: Insert Data Here
Estimated EPC Price (000's): Insert Data Here	GE Competitive Rating: Insert Data Here
Contribution Margin for GE's Scope (%): Insert Data Here	Finance Structure: Insert Data Here
Power Plant Technology: Insert Data Here	Fuel Structure: Insert Data Here
Project Technology Configuration: Insert Data Here	Primary Fuel: Insert Data Here
Number of Units per Block: Insert Data Here	Secondary Fuel: Insert Data Here
Number of Project Blocks: Insert Data Here	

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Fig. 1

Project Details

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Select the type of "R" review (check all that apply)

☐ R-2 To Bid This Project

☐ Interim R-3 To Sign An MOU/LOI/TPA

☐ Interim R-3 For Engineering Release

☐ Interim R-3 For Manufacturing Release

☐ Interim R-3 To Receive Funds

☐ Final R-3 Based On Fully Negotiated Contract

☐ Interim R-3 For []

Buyer Finance Structure: [XXXXXXXXXXXXXXXXXXXX]

Events That Trigger Delay LD's: [XXXXXXXXXXXXXXXXXXXX]

GE Scope In Consortium: [XXXXXXXXXXXXXXXXXXXX]

Gas Turbine

Combined Cycle Configuration: [XXXXXXXXXXXXXXXXXXXX]

Cogeneration Configuration: [XXXXXXXXXXXXXXXXXXXX]

Number Of Project Blocks: [XXXXXXXXXXXXXXXXXXXX]

Gas Turbine Model: [XXXXXXXXXXXXXXXXXXXX]

GT Generator Model: [XXXXXXXXXXXXXXXXXXXX]

GT Generator Quantity: [XXXXXXXXXXXXXXXXXXXX]

Number of GT Units

Block 1: [XXXXXXXXXXXX]

Block 2: [XXXXXXXXXXXX]

Block 3: [XXXXXXXXXXXX]

Block 4: [XXXXXXXXXXXX]

Block 5: [XXXXXXXXXXXX]

Block 6: [XXXXXXXXXXXX]

Steam Turbine / Boiler

Steam Turbine Model: [XXXXXXXXXXXXXXXXXXXX]

Steam Turbine Quantity: [XXXXXXXXXXXXXXXXXXXX]

ST LSB: [XXXXXXXXXXXX]

ST Megawatt: [XXXX] (MW)

ST Generator Model: [XXXXXXXXXXXXXXXXXXXX]

Boiler/HRSQ Type: [XXXXXXXXXXXXXXXXXXXX]

Boiler/HRSQ Quantity: [XXXXXXXXXXXXXXXXXXXX]

BFPT Quantity (if any): [XXXXXXXXXXXXXXXXXXXX]

BFPT Capacity (if known): [XXXXXXXXXXXXXXXXXXXX]

Other Equipment / Services That GE Will Supply In This Contract (check all that apply)

☐ Interconnection Yard

☐ Power Island BOP Only

☐ IGCC Gasifier

☐ Transformer

☐ Pipeline

☐ CSA

☐ Glegg Scope

☐ CMU

☐ Other

Is There A CC STG Capture Strategy? ☐ Yes ☐ No

Is There A CC Performance Wrap? (CC Liquefaction Package Data Only) ☐ Yes ☐ No

Will GE Provide An Installation, Commissioning Or Turnkey Proposal Later? ☐ Yes ☐ No

Expenditure Strategy Below

[XXXXXXXXXXXXXXXXXXXX]

[XXXXXXXXXXXXXXXXXXXX]

Fig. 2

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Noise 1

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General Information

Does The Selected Project Require A Noise Guarantee From GE Or Its Consortium Partner?
Select One Of The Following To Complete This Noise Risk Module
☐ The Customer Has Stated It Will Not Require A Noise Guarantee
☐ The Customer Has Issued A Detailed Technical Specification Which Does Not Refer To A Noise Guarantee
☐ The Customer Has Not Issued A Technical Specification And Has Not Stated That They Want A Noise Guarantee
☐ The Technical Materials Issued By The Customer Do Not Refer To A Noise Guarantee And The Customer Has Not Stated They Want A Noise Guarantee

Select The Type Of Noise Guarantee(s) That Applies:
(Note: Select Both If GE Or Its Consortium Partner Is Offering A Far Field Guarantee)
☐ Near Field ☐ Far Field

Select The Location Of The Equipment Being Supplied By GE:

Gas Turbine	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors
Steam Turbine	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors
HRSG	<input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors

Options For GEPE Built Units (Including BB, GFA, GE)
Does GE's Offer Include A Low Noise Package (90 dBA)?
☐ Yes ☐ No
Does GE's Offer Include A Second Silencer?
☐ Yes ☐ No

Near Field Guarantee
Define The Near Field Guaranteed dBA Level.
Where There Is A Near Field Guarantee With An Indoor Turbine & Generator, Who Is Providing The Building? ☐ GE/Sub ☐ Others ☐ N/A

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Fig. 3

Far Field Guarantee		Project	
<p>Select The Sound Pressure Level Requested By The Customer:</p> <p>Does GE's Or Its Sub-Contractors Scope Of Supply Include An Exhaust Stack, Evaporative Cooling Tower, Air Cooled Condenser, Or HRSG?</p> <p>Do The Proposal / Contract Guarantees Reference A Plot Plan Dwg. Number, Date & Revision?</p> <p>Does This Proposal / Contract Include More Than Turbine Generators, MSD, And T&Es?</p>		<p>_____ dBA</p> <p><input type="checkbox"/> Unknown <input type="checkbox"/> No <input type="checkbox"/> (m)</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>Partner Status</p> <p>Who Is Responsible For The Far Field Noise Guarantee?</p> <p>Has The Partner's Noise Control Capability Been Evaluated?</p> <p>Does The Consortium Partner's Noise Control Capability Meet GE Standards?</p>			
<p>Select Any Of The Following Types Of Guarantees Requested By The Customer:</p> <p><input type="checkbox"/> Guarantees Based On Start-Up And/Or Transient Noise And NOT On Base/Peak Load Operation</p> <p><input type="checkbox"/> Guarantees Based On Maximum Sound Pressure Levels And NOT Average Sound Pressure Levels</p> <p><input type="checkbox"/> Guarantees Based On Octave Band Sound Pressure Levels OR ISO/R Noise Curves And NOT Single dBA Value</p> <p><input type="checkbox"/> Guarantees Based On Individual Equipment Or Components (eg Inlet, Exhaust)</p>			
<p>Special Customer Requirements</p>			

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Fig. 4

Noise 3

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GEPS Risk Management

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Noise Risk Assessment

GE's Partner Is Responsible For The Far Field Guarantee.

GE Is Responsible For The Near Field Noise Contribution Of Its Scope To The Far Field Guarantee.

HIGH Risk Drivers:

Guarantee Is Based On Maximum Sound Pressure Levels And NOT On Average Sound Pressure Levels (NR#1).

Guarantee Is Based On Octave Band Sound Pressure Levels Or Noise Curves And NOT On A Single dBA Value (NR#2).

Guarantee Is Based On Start-Up And/Or Transient Noise And NOT On Base/Peak Load Operation (NR#3).

Guarantees Are Based On Individual Equipment Or Components (e.g. Inlet, Exhaust) (NR#4).

Near Field Noise Guarantee Is Less Than 85 dBA At 3 Feet Or 1 Meter (NR#5).

Near Field Noise Guarantee Is For Indoor Units Where The Building Is Not In GE's Scope (NR#6).

The Far Field Guarantees Do Not Reference A Plot Plan Dwg. Number, Date and Revision (NR#10).

Exhaust Stack, Cooling Tower, Air Cooled Condenser Or HSRG Is In GE Or Its Sub-Contractors Scope (NR#11).

Far Field Guarantee Is Required For All Equipment Only Proposal (NR#12).

Partner's Acoustic Design Capability Does Not Meet GE's Standards (NR#14).

Guarantee Conditions Which Are Within GEPS Quoting Limits:

Far Field Noise Guarantee Is Required At An Equivalent Of -3 dBA Or Greater At 400 Feet Or 122 Meters For An Indoor Facility.

Noise Inputs

View Mitigations

Fig. 5

Noise 4

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No Mitigations Are Necessary. Generate Your Report From The Report Menu

☐ Immediately Consult A Noise Control Engineer For Assistance
 ☐ Add Additional Noise Attenuation In The Inlet Or Exhaust Systems Or Other Equipment As Required

Have Pegasus Scope And ECOT Comments Been Updated To Reflect The Guarantee Levels And These Mitigation Strategies?

☐ Yes
 ☐ No

Does The Output And Heat Rate Performance Guarantee Reflect The Actual Inlet & Exhaust Noise Attenuation Pressure Drops?

☐ Yes
 ☐ No

Are The Mitigation Costs Included In The Profitability Summary?

☐ Yes
 ☐ No

With Mitigations In Place, Is It Expected That The Noise Guarantee Will Be Achieved?

☐ Yes
 ☐ No

Will GEPS Have An Availability Guarantee On This Project?

☐ Yes
 ☐ No

Noise Response

Noise Engineering Agrees With The Mitigation Strategies Used On This Project (Y/N)?

☐ Yes
 ☐ No

Submit

601

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Fig. 6

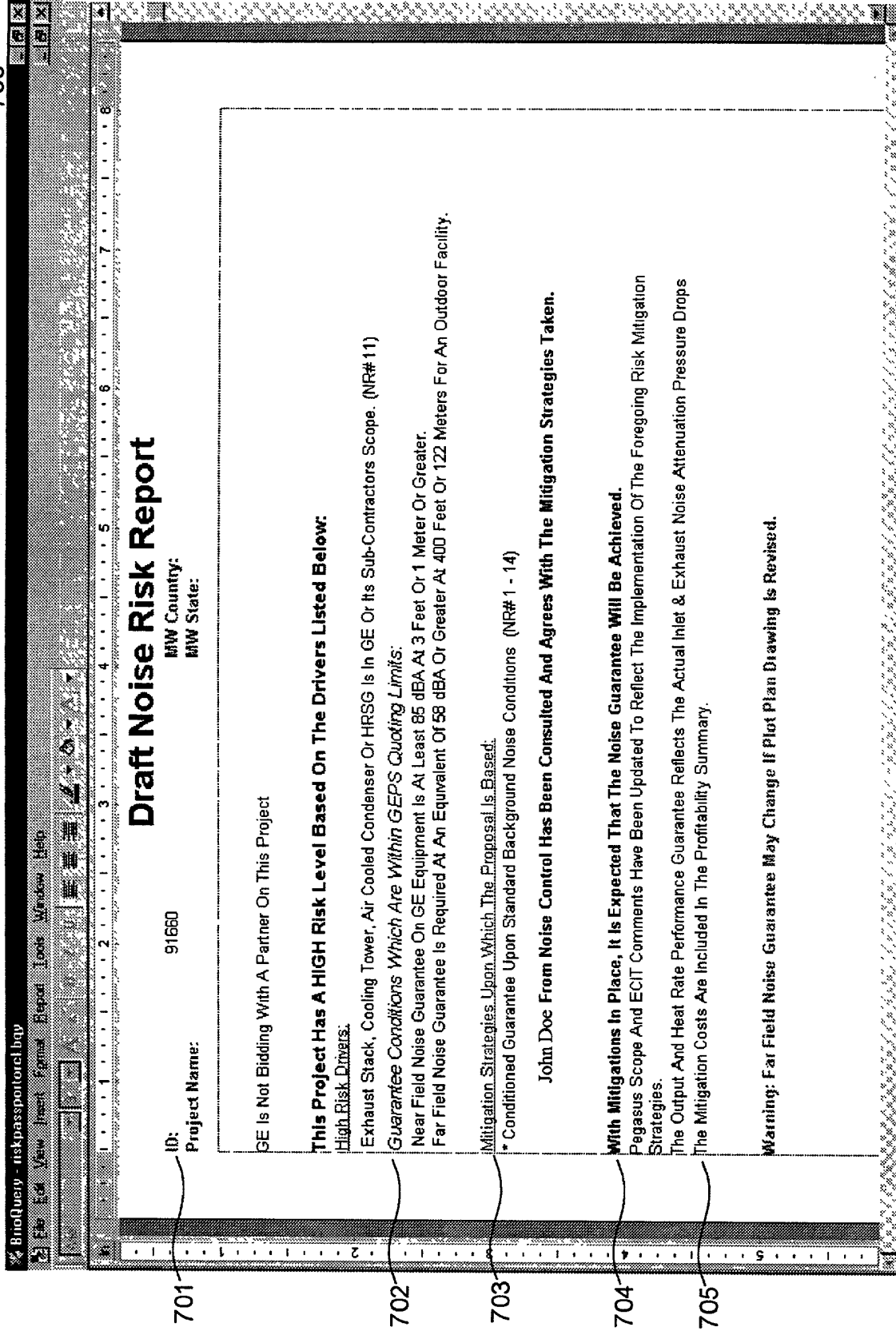


Fig. 7

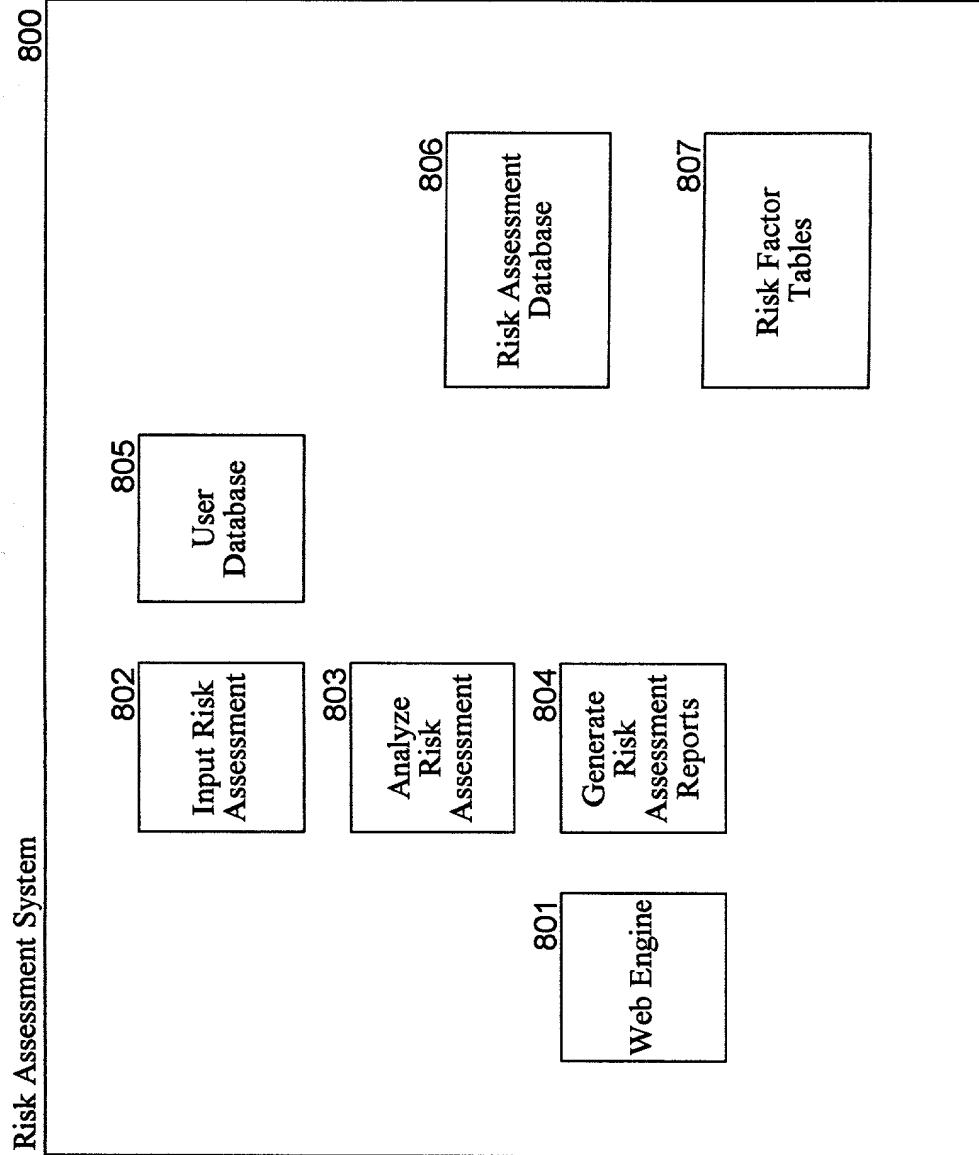
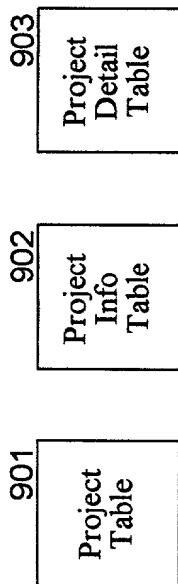


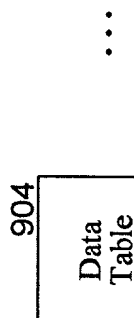
Fig. 8

900

Risk Assessment Database



Risk Type 1 2

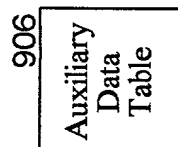
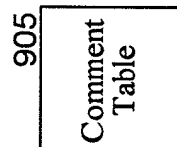


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Also may
have Risk
Results Table

Fig. 9

Risk Factor Tables 1000

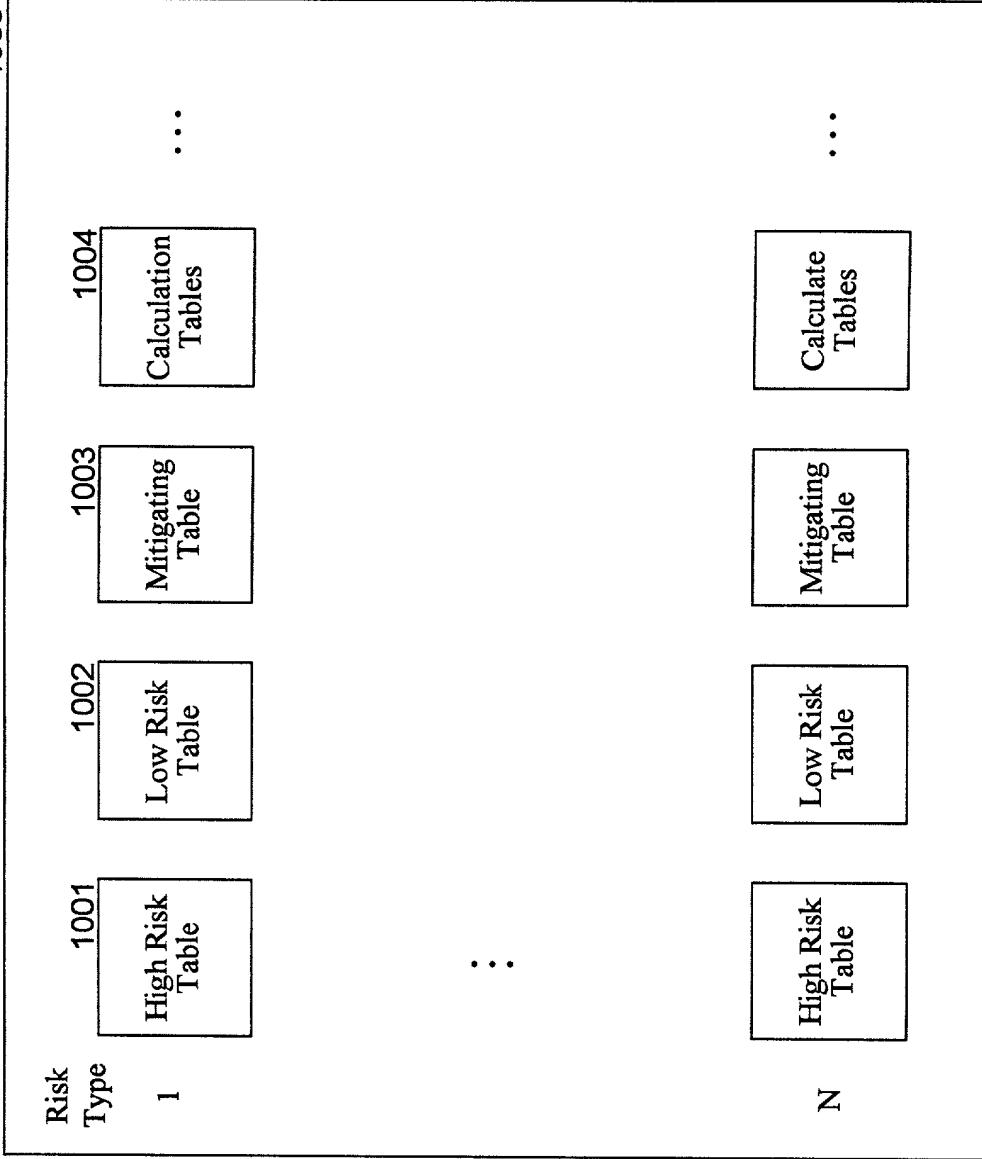


Fig. 10

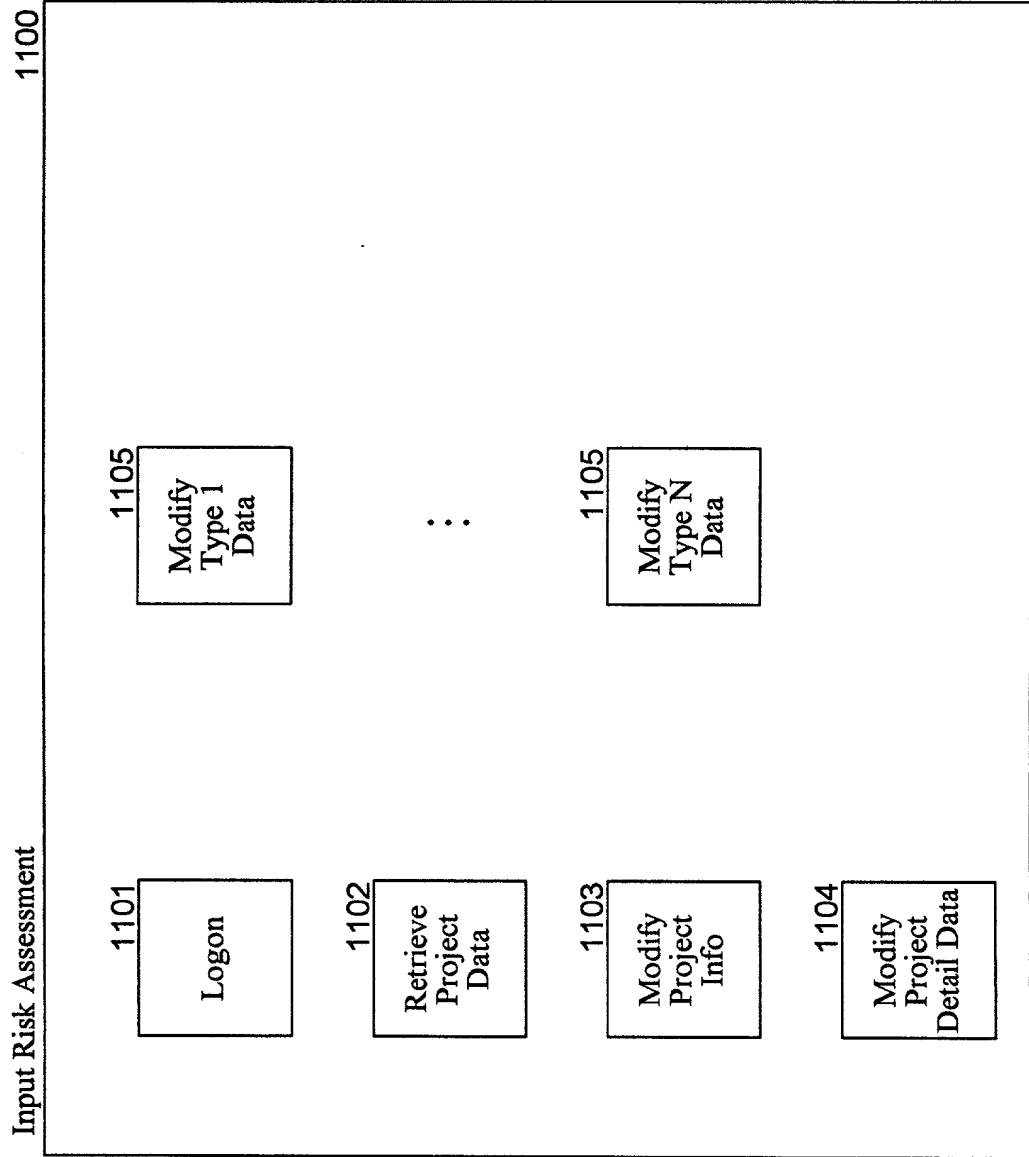


Fig. 11

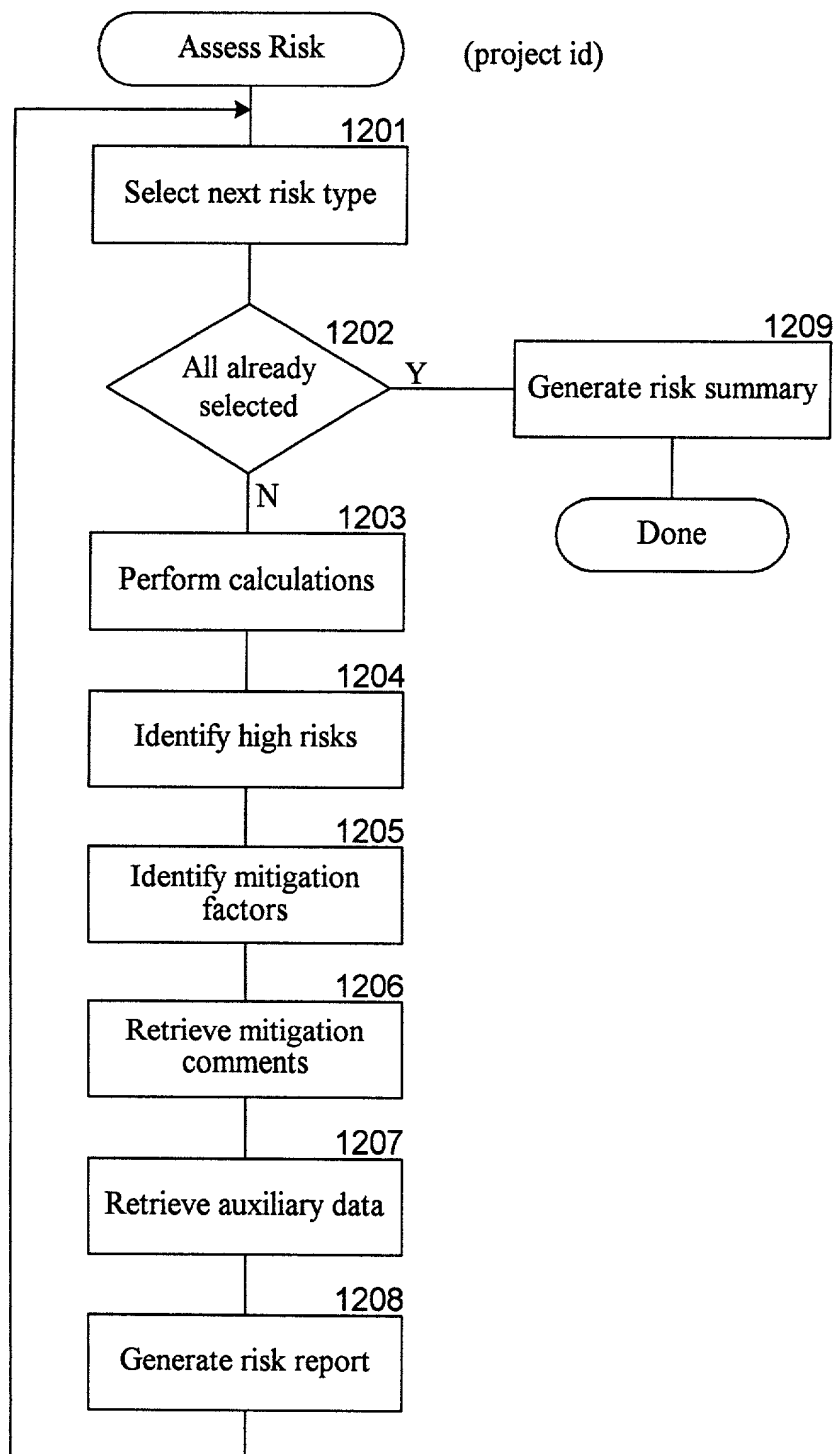


Fig. 12

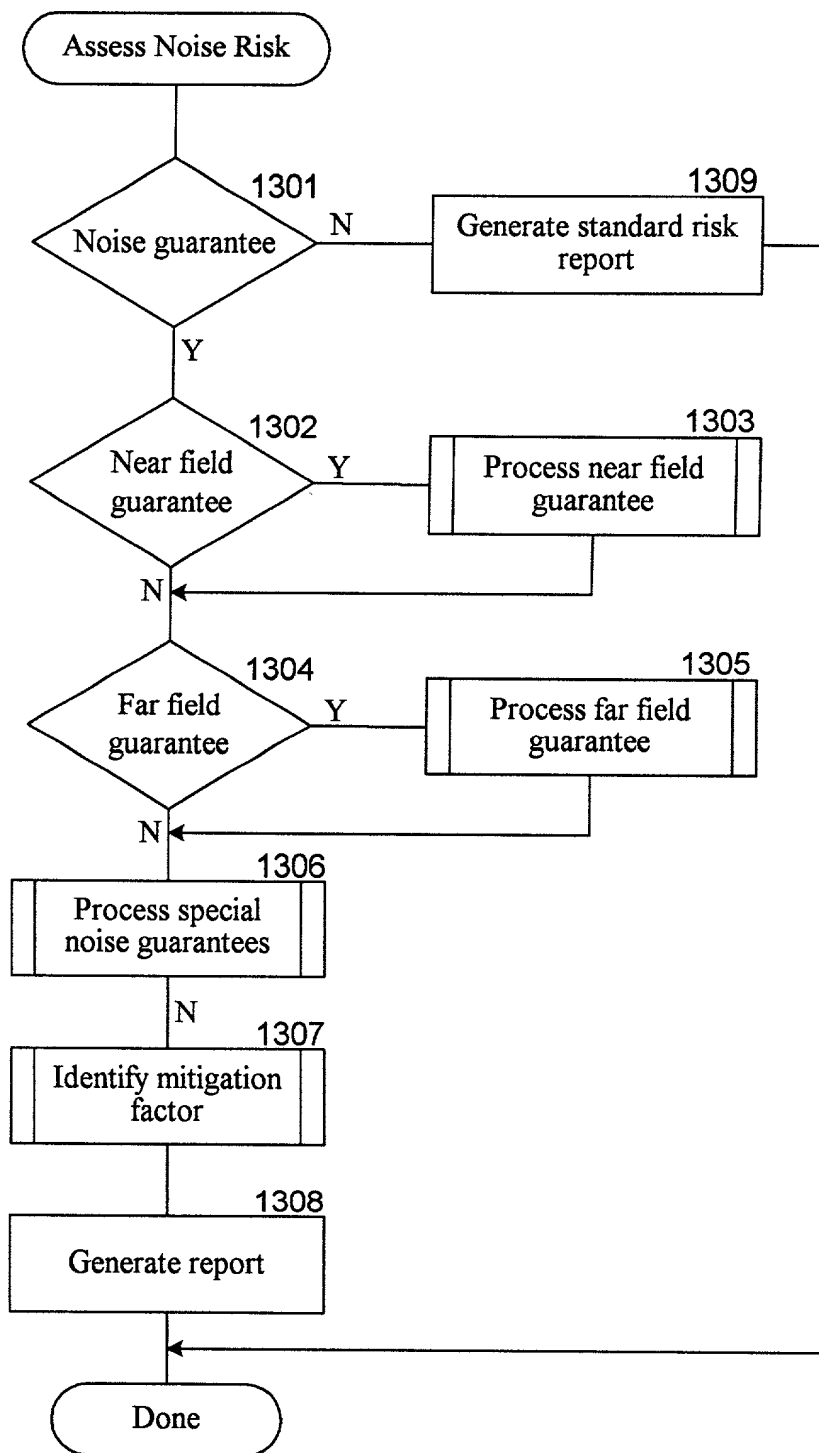


Fig. 13

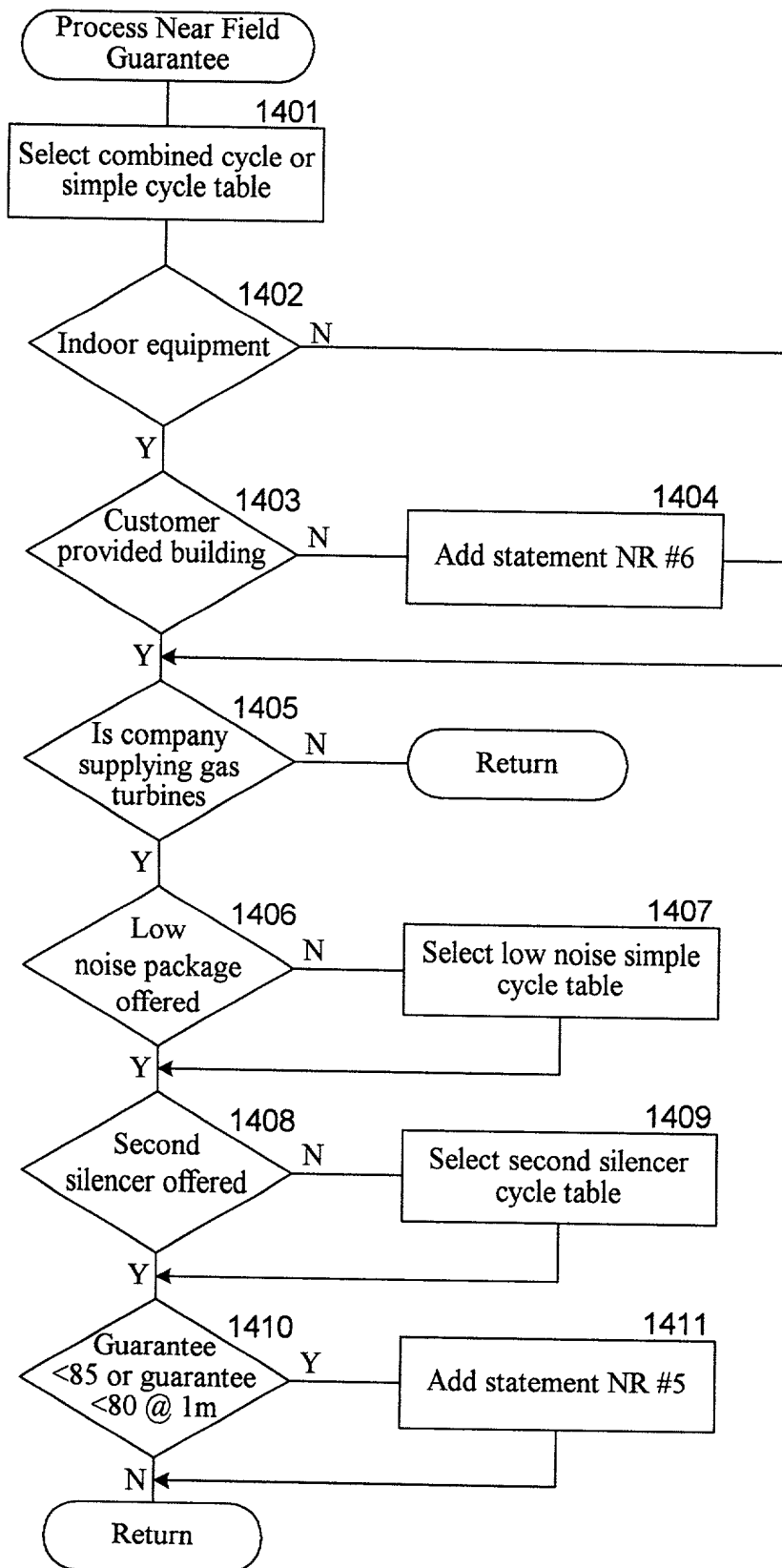


Fig. 14

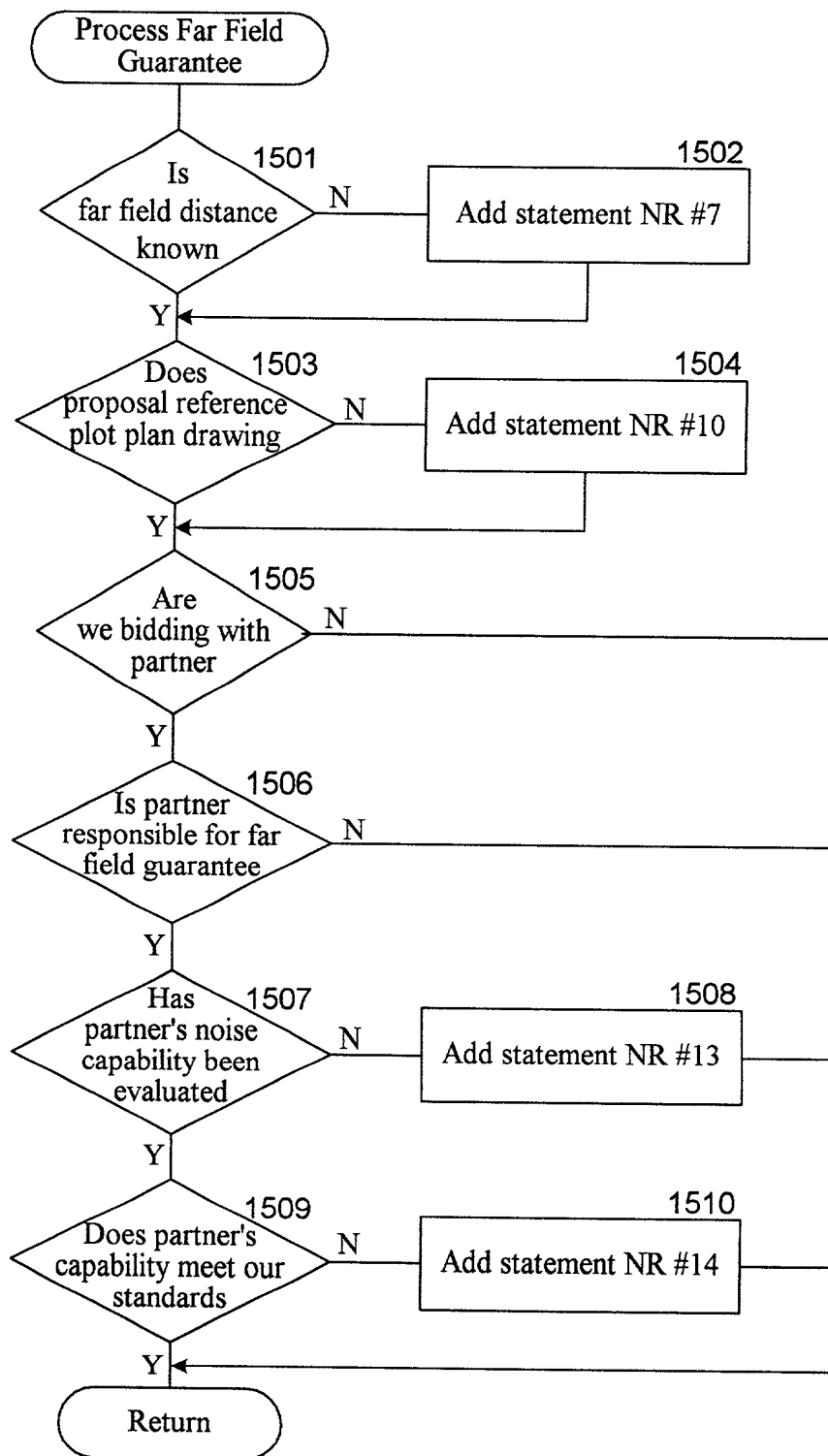


Fig. 15

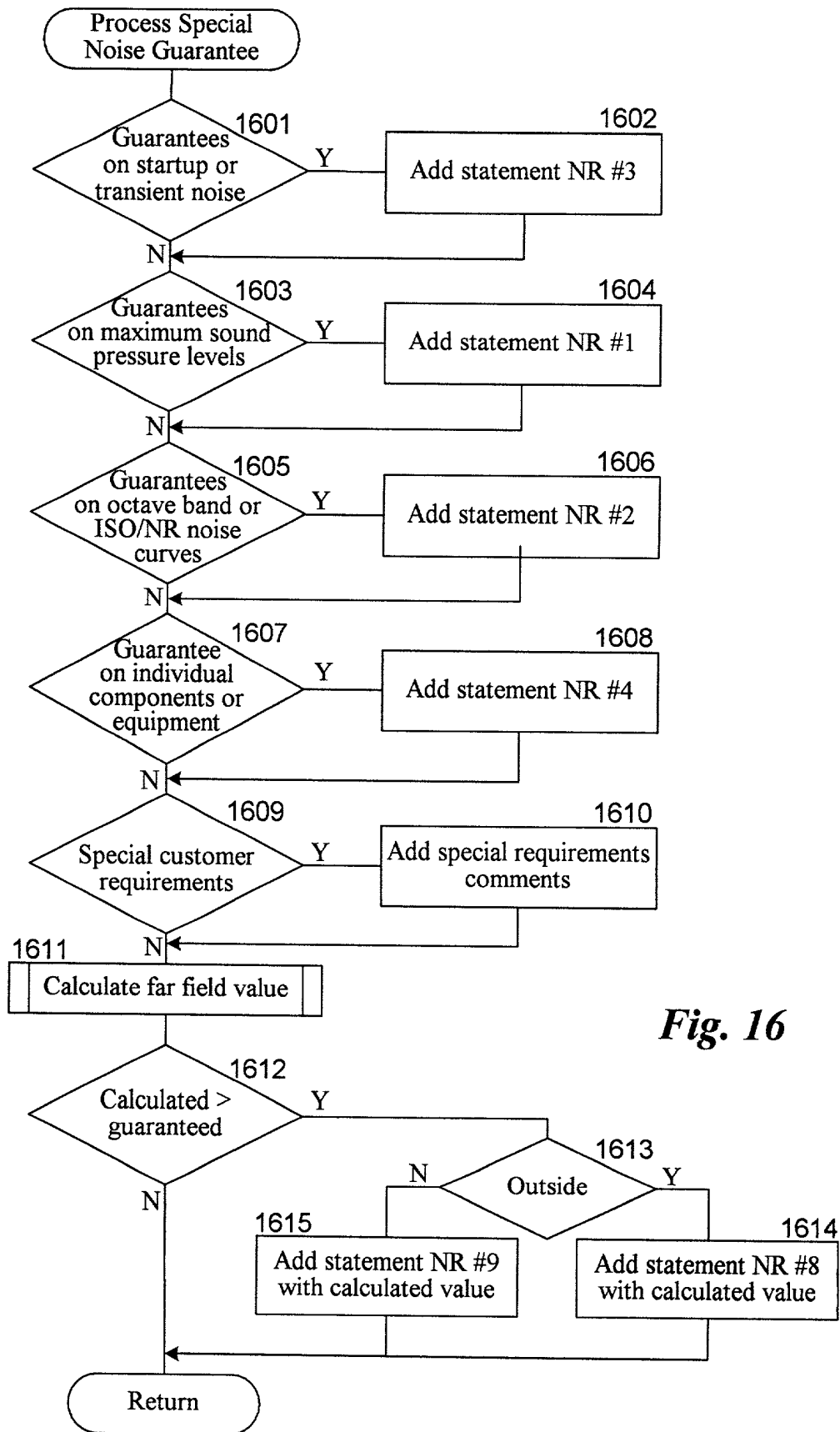


Fig. 16

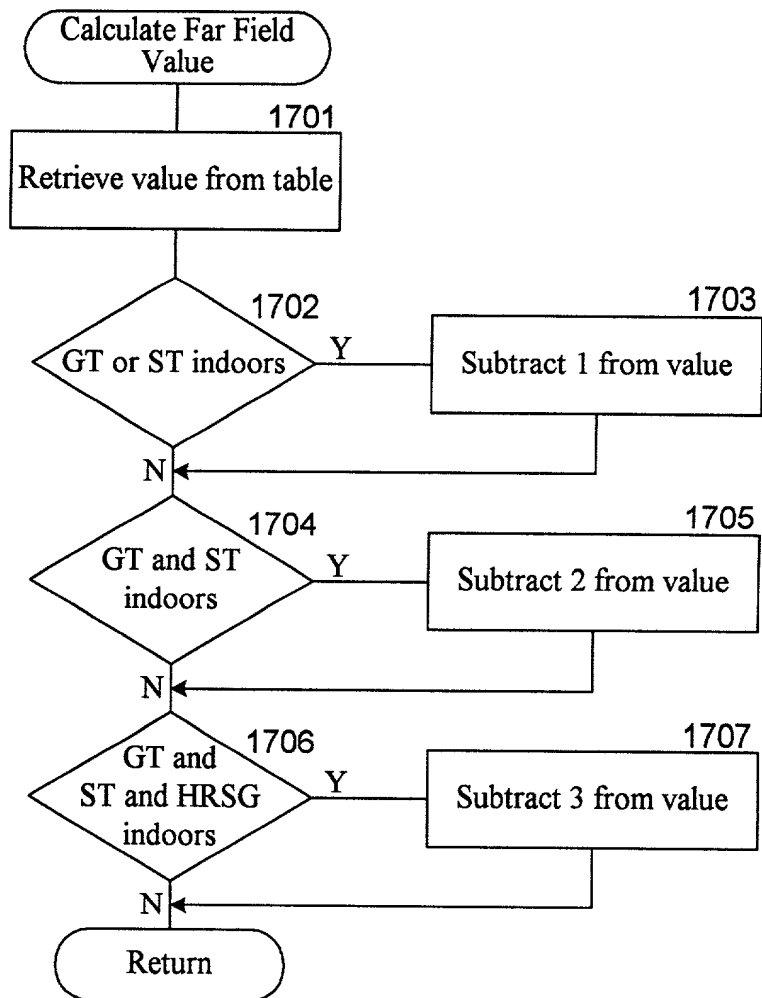


Fig. 17

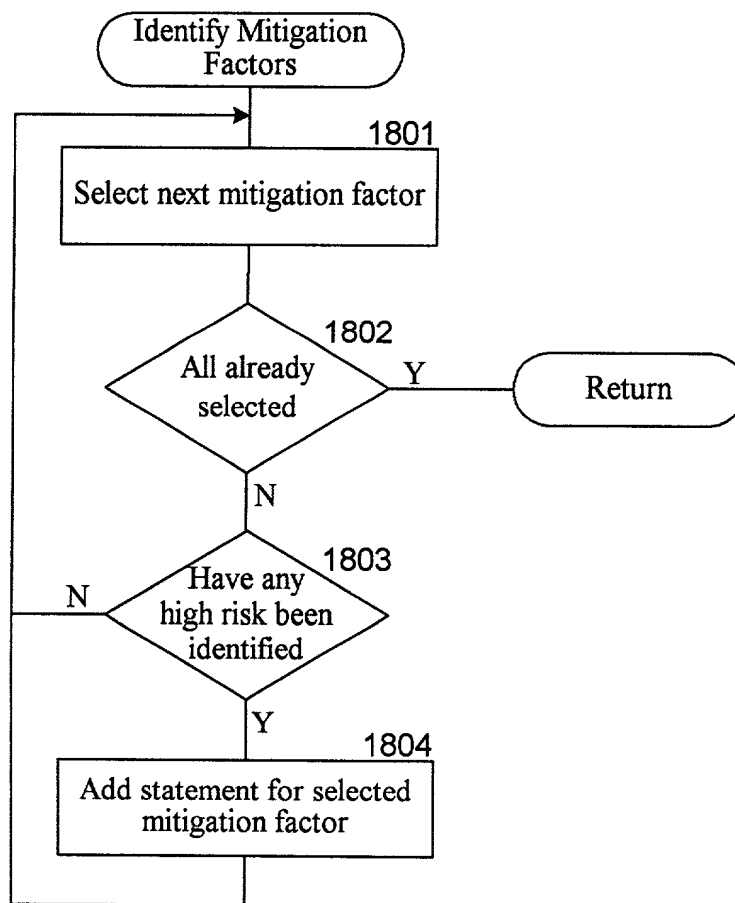


Fig. 18